

**ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM**

Plant Abstract

Element Code: PDPGN08760

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Eriogonum terrenatum* Reveal

COMMON NAME: San Pedro River wild buckwheat

SYNONYMS:

FAMILY: Polygonaceae

AUTHOR, PLACE OF PUBLICATION: Reveal, Phytologia. 86(3): 144. 2004.

TYPE LOCALITY: San Pedro Riparian National Conservation Area, west of San Pedro River, Cochise County, Arizona, United States of America.

TYPE SPECIMEN: HT: NY-803682. J.L. Reveal 8417 et al., 20 October 2003. IT: ARIZ, ASC, ASU, B, BM, BRY, CAS, COLO, GH, ID, K, MARY, MICH, MO, OSC, RENO, RM, RSA, TEX, UC, UNLV, US, UTC, WTU.

TAXONOMIC UNIQUENESS: *Eriogonum terrenatum* is part of the subgenus *Eriogonum* subg. *Eucycla*, and in the geographic region of Arizona and New Mexico, it is 1 of 28 species of *Eriogonum* (FNA 1993+).

DESCRIPTION: Erect to sprawling woody shrub, not scapose, 1 - 4(-5) x (1-)2 - 6(-9)dm, floccose to subglabrous or tomentose, greenish. Stems spreading or erect, without persistent leaf bases, up to 2 times the height of the plant; caudex stems absent; flowering stems erect or nearly so, slender, solid, not fistulose, 0.5-3 cm, thinly tomentose. Cauline leaves fasciculate, the leaf-blades linear-oblongate or linear-elliptic, 3 - 8(-11) x (0.5-)1 - 2 mm, densely white-tomentose abaxially, thinly floccose to glabrous and greenish adaxially, margins rolled; petioles 0.5-1 mm, glabrous. Inflorescences cymose, compact, 1-3 x 1-3 cm; branches dichotomous, thinly tomentose; bracts 3, scalelike, triangular, (0.5-)1-2 mm. When present, peduncles are erect, 1-8(-11) mm, thinly tomentose. Involucres solitary, campanulate, 3-4.5 x 2.5-3.5 mm wide, thinly tomentose to subglabrous; teeth 5, erect, 0.5-1.2 mm. Flowers are white, glabrous, 3.5-4.5(-5) mm; tepals dimorphic, those of the outer whorl broadly cordate, 2-3 mm wide, rounded apically, those of the inner whorl oblongate, 1-2 mm wide, united 1/3 their length; stamens exserted, 3.5-4.5 mm; filaments pilose basally. Achenes trigonous, light brown, 4-4.5 mm, glabrous. (Reveal 2004; FNA 1993+).

AIDS TO IDENTIFICATION: In *Eriogonum terrenatum*, flowers are 3.5-4.5(-5) mm; involucres campanulate, 2.5-3.5 mm wide; plants 1-4(-5) dm; found in Cochise and Pima counties, Arizona. Whereas, the flowers of *E. pulchrum* are 1.5-2(2.5) mm; involucres narrowly

turbinate, 1-1.5 mm wide; plants 0.8-1.2(1.5) dm; found in Apache, Coconino, northeast Mohave, Navajo, and northern Yavapai counties, Arizona. (FNA 1993+).

ILLUSTRATIONS: Color photos of plant and habitat (James L. Reveal, in <http://www.life.umd.edu/emeritus/reveal/pbio/eriog/erioeucy/terrenatum.html>)
Color photo of Isotype (Reveal et al., US-3459687, in <http://ravenel.si.edu/botany/types/fullRecords.cfm?myFamily=>)
Color photo of Isotype collection (Reveal et al., MO-4472202, in http://mobot.mobot.org/cgi-bin/search_vast)
Color photo (Liz Makings, ASU Vascular Herbarium, in <http://seinet.asu.edu/collections>)
Color photo (Marc Baker, ASU Vascular Herbarium, in <http://seinet.asu.edu/collections>)
Color photos of collections (ASU-138242, ASU-138243, ASU-246151, in <http://seinet.asu.edu/collections>)

TOTAL RANGE: Endemic to Arizona, confined to two geographically separate areas, one in Pima County and the other in Cochise County.

RANGE WITHIN ARIZONA: See "Total Range."

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial woody shrub.

PHENOLOGY: Flowers summer-fall (Aug-Nov).

BIOLOGY: Can be propagated by seed when ripe or in spring, or by half-ripe cuttings in late summer.

HABITAT: Gravelly soil in *Larrea tridentata* (creosote bush) and *Acacia constricta* communities. In Pima County, the plant is restricted to clayey outcrops of the Pantano Formation, whereas in Cochise County, the plant is confined to the eroded, clay slopes and flats of the Saint David Formation.

ELEVATION: 3,520 – 3,914 ft (1073-1193 m). Per FNA (1993+), elevation ranges from 3,281-3,937 ft (1000-1200 m).

EXPOSURE:

SUBSTRATE: Gravelly clayey outcrops, slopes and flats. Also found in calcareous soil.

PLANT COMMUNITY: Creosote bush communities; *Acacia constricta* dominated Chihuahuan Desert Scrub. Associated species include: *Acacia constricta* (Mescat acacia), *Acacia* sp., *Dyssodia papposa* (fetid dogweed), *Ephedra trifurca* (long-leaf Mormon-tea), *Juniperus* sp. (juniper), *Koeberlinia spinosa* (crown of thorns), *Krameria* sp. (ratany), *Larrea tridentata* (creosote bush), *Menodora* sp., *Prosopis velutina* (Velvet mesquite), *Psilostrophe* sp. (paper-flower), *Sporobolus wrightii* (Wright's dropseed), *Thymophylla acerosa* (prick-leaf dogweed), *Yucca elata* (soaptree yucca), and *Zinnia* sp. (SEINet accessed 2006).

POPULATION HISTORY AND TRENDS: Unknown.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None
STATE STATUS: None
OTHER STATUS: Bureau of Land Management Sensitive (USDI, BLM AZ 2005)

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BLM – Tucson Field Office; State Land Department; Private.

SOURCES OF FURTHER INFORMATION

REFERENCES:

- Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 7+ vols. New York and Oxford.
- Global Biodiversity Information Facility. GBIF Biodiversity Data Portal.
http://www.europe.gbif.net/portal/digit_detail.jsp?scientificName=Eriogonum+terrenatum. Accessed: 4/12/2006.
- Harvard University Herbaria. 2005. Index of Botanical Specimens.
<http://cms.huh.harvard.edu/databases/specimens?id=244647>. Accessed: 4/12/2006.
- International Plant Names Index. 2005. IPNI Plant Name Query Results. Accessed: 4/12/2006, <http://www.ipni.org/ipni/plantsearch?id=60437667-2>.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Eriogonum terrenatum* Reveal. http://mobot.mobot.org/cgi-bin/search_vast. Accessed: 12 Apr 2006.
- Reveal, J.L. 2004. Taxonomic Eriogonoideae (Polygonaceae) of North America north of

Mexico. *Eriogonum michaux* subg. *Eucycla* Nuttall. University of Maryland. College Park, Maryland. Pp. 1-6. Accessed: 4/12/2006.

<http://www.life.umd.edu/emeritus/reveal/pbio/eriog/erioeucy/terrenatum.html>.

SEINet. Collections Search Result. Accessed 4/12/2006 at

<http://seinet.asu.edu/collections/list.jsp>.

The New York Botanical Garden. NYBG Specimens Search Results.

<http://207.156.243.8/emu/vh/specimen.php?irn=811341>. (Accessed: 4/12/2006).

USDI, Bureau of Land Management. 2005. BLM Sensitive Species List for Arizona.

U.S. National Herbarium Type Specimen Register (US).

<http://ravenel.si.edu/botany/types/fullRecords.cfm?myFamily=>. Accessed: 4/12/2006.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

Dr. James L. Reveal – Professor Emeritus, University of Maryland, College Park, Maryland.

John Anderson – Bureau of Land Management, State Office, Phoenix, Arizona.

ADDITIONAL INFORMATION:

Revised: 2006-04-20 (SMS)

To the user of this abstract: you may use the entire abstract or any part of it. We do request, however, that if you make use of this abstract in plans, reports, publications, etc. that you credit the Arizona Game and Fish Department. Please use the following citation:

Arizona Game and Fish Department. 20XX (= **year of last revision as indicated at end of abstract**). X...X (= **taxon of animal or plant**). Unpublished abstract compiled and edited by the Heritage Data Management System, Arizona Game and Fish Department, Phoenix, AZ. X pp.